

Release notes for ENDF/B Development n-080_Hg_204
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=8049, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=8049, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      201 TO      327
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=8049, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=8049, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      201
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      329
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      335
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      429
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      523
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 5 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 5
SECTION 3/ 5 NOT IN DIRECTORY      RECORD NUMBER      551
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 602

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 610

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 617

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 625

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 632

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 646

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 659

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 669

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 55 | |
| | SECTION 3/ 55 NOT IN DIRECTORY | RECORD NUMBER 679 |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 56 | |
| | SECTION 3/ 56 NOT IN DIRECTORY | RECORD NUMBER 689 |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 57 | |
| | SECTION 3/ 57 NOT IN DIRECTORY | RECORD NUMBER 699 |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 58 | |
| | SECTION 3/ 58 NOT IN DIRECTORY | RECORD NUMBER 709 |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 59 | |
| | SECTION 3/ 59 NOT IN DIRECTORY | RECORD NUMBER 718 |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 60 | |
| | SECTION 3/ 60 NOT IN DIRECTORY | RECORD NUMBER 727 |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 61 | |
| | SECTION 3/ 61 NOT IN DIRECTORY | RECORD NUMBER 739 |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 62 | |
| | SECTION 3/ 62 NOT IN DIRECTORY | RECORD NUMBER 751 |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 63 (0): Directory (b)

- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 63 | | |
| | SECTION 3/ 63 NOT IN DIRECTORY | RECORD NUMBER | 763 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 64 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 64 | | |
| | SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER | 772 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 65 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 65 | | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER | 783 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 66 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 66 | | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER | 792 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 67 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 67 | | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER | 801 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 68 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 68 | | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER | 810 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT= 91 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT= 91 | | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER | 820 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT=102 (0): Directory (b)
- | | | | |
|--|-------------------------------------------|---------------|-----|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 829 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT=103 (0): Directory (b)

- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT=103 | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 842 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT=104 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT=104 | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 850 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 3, MT=107 (0): Directory (b)
- | | | |
|--|-------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 3, MT=107 | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 858 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|------------------------------------------|-------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 2 | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 869 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|--|-------------------------------------------|--------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 16 | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 5283 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|--|-------------------------------------------|--------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 17 | |
| | SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 5286 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|--|-------------------------------------------|--------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 22 | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 5289 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|--|-------------------------------------------|--------------------|
| | ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 28 | |
| | SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 5292 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 51 (0): Directory (b)

- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 51 | |
| SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER 5295 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 52 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 52 | |
| SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER 5399 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 53 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 53 | |
| SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER 5488 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 54 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 54 | |
| SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER 5515 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 55 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 55 | |
| SECTION 4/ 55 NOT IN DIRECTORY | RECORD NUMBER 5542 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 56 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 56 | |
| SECTION 4/ 56 NOT IN DIRECTORY | RECORD NUMBER 5569 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 57 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 57 | |
| SECTION 4/ 57 NOT IN DIRECTORY | RECORD NUMBER 5596 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 58 (0): Directory (b)
- | | |
|-------------------------------------------|--------------------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 58 | |
| SECTION 4/ 58 NOT IN DIRECTORY | RECORD NUMBER 5623 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 59 (0): Directory (b)

- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 59 | RECORD NUMBER | 5649 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 60 | RECORD NUMBER | 5675 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 61 | RECORD NUMBER | 5749 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 62 | RECORD NUMBER | 5823 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 63 | RECORD NUMBER | 5897 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 64 | RECORD NUMBER | 5923 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 65 | RECORD NUMBER | 5995 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 66 | RECORD NUMBER | 6021 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 67 (0): Directory (b)

- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 67 | RECORD NUMBER | 6047 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 68 | RECORD NUMBER | 6073 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 4, MT= 91 | RECORD NUMBER | 6145 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 5, MT= 16 | RECORD NUMBER | 6172 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 5, MT= 17 | RECORD NUMBER | 6233 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 5, MT= 22 | RECORD NUMBER | 6267 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 5, MT= 28 | RECORD NUMBER | 6328 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 5, MT= 91 (0): Directory (b)
- | | | |
|-------------------------------------------|---------------|------|
| ERROR(S) FOUND IN MAT=8049, MF= 5, MT= 91 | RECORD NUMBER | 6370 |
| SECTION 5/ 91 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF= 6, MT= 5 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8049, MF= 6, MT= 5
SECTION 6/ 5 NOT IN DIRECTORY RECORD NUMBER 6459
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 16
SECTION 12/ 16 NOT IN DIRECTORY RECORD NUMBER 17856
65. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT= 16 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 17
SECTION 12/ 17 NOT IN DIRECTORY RECORD NUMBER 17864
67. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT= 17 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 17
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 22
SECTION 12/ 22 NOT IN DIRECTORY RECORD NUMBER 17871
69. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT= 22 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 22
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 28
SECTION 12/ 28 NOT IN DIRECTORY RECORD NUMBER 17879
71. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT= 28 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 28
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 51
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 17886
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 52
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 17890
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 53
SECTION 12/ 53 NOT IN DIRECTORY RECORD NUMBER 17894
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 54
SECTION 12/ 54 NOT IN DIRECTORY RECORD NUMBER 17898
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 55
SECTION 12/ 55 NOT IN DIRECTORY RECORD NUMBER 17902
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 56
SECTION 12/ 56 NOT IN DIRECTORY RECORD NUMBER 17907
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 57
SECTION 12/ 57 NOT IN DIRECTORY RECORD NUMBER 17911
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 58
SECTION 12/ 58 NOT IN DIRECTORY RECORD NUMBER 17915

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 59
SECTION 12/ 59 NOT IN DIRECTORY RECORD NUMBER 17919
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 60 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 60
SECTION 12/ 60 NOT IN DIRECTORY RECORD NUMBER 17923
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 61
SECTION 12/ 61 NOT IN DIRECTORY RECORD NUMBER 17927
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 62
SECTION 12/ 62 NOT IN DIRECTORY RECORD NUMBER 17931
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 63 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 63
SECTION 12/ 63 NOT IN DIRECTORY RECORD NUMBER 17935
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 64 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 64
SECTION 12/ 64 NOT IN DIRECTORY RECORD NUMBER 17939
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 65 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 65
SECTION 12/ 65 NOT IN DIRECTORY RECORD NUMBER 17943
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 66 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 66
SECTION 12/ 66 NOT IN DIRECTORY RECORD NUMBER 17947

88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 67 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 67
SECTION 12/ 67 NOT IN DIRECTORY RECORD NUMBER 17951
89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 68 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 68
SECTION 12/ 68 NOT IN DIRECTORY RECORD NUMBER 17955
90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 91
SECTION 12/ 91 NOT IN DIRECTORY RECORD NUMBER 17959
91. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT= 91 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT= 91
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
92. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 17968
93. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
94. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=103
SECTION 12/103 NOT IN DIRECTORY RECORD NUMBER 17982
95. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT=103 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=103
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
96. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT=104 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8049, MF=12, MT=104
SECTION 12/104 NOT IN DIRECTORY RECORD NUMBER 17990
97. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT=104 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=104
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
98. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=12, MT=107 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=107
SECTION 12/107 NOT IN DIRECTORY RECORD NUMBER 17998
99. Missing a gamma spectrum for continuum of gammas
MAT=8049, MF=12, MT=107 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8049, MF=12, MT=107
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
100. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 16
SECTION 14/ 16 NOT IN DIRECTORY RECORD NUMBER 18009
101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 17
SECTION 14/ 17 NOT IN DIRECTORY RECORD NUMBER 18011
102. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 22
SECTION 14/ 22 NOT IN DIRECTORY RECORD NUMBER 18013
103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 28
SECTION 14/ 28 NOT IN DIRECTORY RECORD NUMBER 18015
104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 51
SECTION 14/ 51 NOT IN DIRECTORY RECORD NUMBER 18017

105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 52
SECTION 14/ 52 NOT IN DIRECTORY RECORD NUMBER 18019
106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 53
SECTION 14/ 53 NOT IN DIRECTORY RECORD NUMBER 18021
107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 54
SECTION 14/ 54 NOT IN DIRECTORY RECORD NUMBER 18023
108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 55
SECTION 14/ 55 NOT IN DIRECTORY RECORD NUMBER 18025
109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 56
SECTION 14/ 56 NOT IN DIRECTORY RECORD NUMBER 18027
110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 57
SECTION 14/ 57 NOT IN DIRECTORY RECORD NUMBER 18029
111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 58
SECTION 14/ 58 NOT IN DIRECTORY RECORD NUMBER 18031
112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 59
SECTION 14/ 59 NOT IN DIRECTORY RECORD NUMBER 18033

113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 60 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 60
SECTION 14/ 60 NOT IN DIRECTORY RECORD NUMBER 18035
114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 61
SECTION 14/ 61 NOT IN DIRECTORY RECORD NUMBER 18037
115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 62
SECTION 14/ 62 NOT IN DIRECTORY RECORD NUMBER 18039
116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 63 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 63
SECTION 14/ 63 NOT IN DIRECTORY RECORD NUMBER 18041
117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 64 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 64
SECTION 14/ 64 NOT IN DIRECTORY RECORD NUMBER 18043
118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 65 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 65
SECTION 14/ 65 NOT IN DIRECTORY RECORD NUMBER 18045
119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 66 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 66
SECTION 14/ 66 NOT IN DIRECTORY RECORD NUMBER 18047
120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 67 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 67
SECTION 14/ 67 NOT IN DIRECTORY RECORD NUMBER 18049

121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 68 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 68
SECTION 14/ 68 NOT IN DIRECTORY RECORD NUMBER 18051
122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT= 91
SECTION 14/ 91 NOT IN DIRECTORY RECORD NUMBER 18053
123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 18055
124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT=103
SECTION 14/103 NOT IN DIRECTORY RECORD NUMBER 18057
125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT=104 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT=104
SECTION 14/104 NOT IN DIRECTORY RECORD NUMBER 18059
126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=14, MT=107 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=14, MT=107
SECTION 14/107 NOT IN DIRECTORY RECORD NUMBER 18061
127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=15, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=15, MT= 16
SECTION 15/ 16 NOT IN DIRECTORY RECORD NUMBER 18064
128. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8049, MF=15, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8049, MF=15, MT= 17
SECTION 15/ 17 NOT IN DIRECTORY RECORD NUMBER 18125

129. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT= 22
SECTION 15/ 22 NOT IN DIRECTORY                                RECORD NUMBER  18159
```

130. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT= 28
SECTION 15/ 28 NOT IN DIRECTORY                                RECORD NUMBER  18210
```

131. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT= 91 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT= 91
SECTION 15/ 91 NOT IN DIRECTORY                                RECORD NUMBER  18259
```

132. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY                                RECORD NUMBER  18373
```

133. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT=103 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT=103
SECTION 15/103 NOT IN DIRECTORY                                RECORD NUMBER  18601
```

134. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT=104 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT=104
SECTION 15/104 NOT IN DIRECTORY                                RECORD NUMBER  18673
```

135. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8049, MF=15, MT=107 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8049, MF=15, MT=107
SECTION 15/107 NOT IN DIRECTORY                                RECORD NUMBER  18724
```

- **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 5.12412E+06 DISSAGREES WITH THE GIVEN Q 4.46075E+06 (0): Iffy Q

FILE 3

SECTION 107

THE CALCULATED Q 5.12412E+06 DISSAGREES WITH THE GIVEN Q 4.46075E+06

• fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.29%

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.95%

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 20: n[multiplicity:'2'] + Hg203 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7892349.061096191 eV vs -7490690. eV!

2. Calculated and tabulated Q values disagree.
reaction label 21: n[multiplicity:'3'] + Hg202 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -14093480.46621704 eV vs -1.34834e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 22: n + H1 + Au203 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8891908.259460449 eV vs -9205220. eV!

4. Calculated and tabulated Q values disagree.
reaction label 23: Hg205 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5420788.246765137 eV vs 5.668e6 eV!

5. Calculated and tabulated Q values disagree.
reaction label 24: n + He4 + Pt200 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -392414.1825561523 eV vs -500940. eV!

6. Calculated and tabulated Q values disagree.
reaction label 25: H1 + (Au204_s -> Au204 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1751211.489898682 eV vs -3713530. eV!

7. Calculated and tabulated Q values disagree.
reaction label 26: H2 + (Au203_s -> Au203 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6674533.952850342 eV vs -6980610. eV!

8. Calculated and tabulated Q values disagree.
reaction label 27: He4 + (Pt201_s -> Pt201 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 4023543.030181885 eV vs 4460750. eV!

• njoy2012 Warnings:

1. Evaluation has no resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No RR

---message from unresr---mat 8049 has no resonance parameters
copy as is to nout

2. Evaluation has no resonance parameters given
purr...probabalistic unresolved calculation (0): No RR

---message from purr---mat 8049 has no resonance parameters
copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

- message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided
8. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (0): ACER/check energy distributions (0)

 check energy distributions
 consis: ep.gt.epmax 9.901826E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-11
 9. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (1): ACER/check energy distributions (0)

 check energy distributions
 consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
 10. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (2): ACER/check energy distributions (0)

 check energy distributions
 consis: ep.gt.epmax 5.446004E+01 with q.lt.0 for (n,x) at e 5.500000E+01 -> 5.448059E+01
 11. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (3): ACER/check energy distributions (0)

 check energy distributions
 consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
 12. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (4): ACER/check energy distributions (0)

 check energy distributions
 consis: ep.gt.epmax 5.941095E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.945599E+01
 13. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (5): ACER/check energy distributions (0)

 check energy distributions
 consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
 14. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (6): ACER/check energy distributions (0)

 check energy distributions
 consis: ep.gt.epmax 1.089200E+02 with q.lt.0 for (n,x) at e 1.100000E+02 -> 1.089612E+02
 15. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (7): ACER/check energy distributions (0)

 check energy distributions
 consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
 16. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (8): ACER/check energy distributions (0)

- check energy distributions
consis: ep.gt.epmax 1.188218E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.189120E+02
17. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (9): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
18. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (10): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.287237E+02 with q.lt.0 for (n,x) at e 1.300000E+02 -> 1.288628E+02
19. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (11): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
20. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (12): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.386255E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.388136E+02
21. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (13): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
22. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (14): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.485273E+02 with q.lt.0 for (n,x) at e 1.500000E+02 -> 1.487643E+02
23. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (15): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

• **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```

ACELST WARNING - Processing Ang.Dist.MT          2
                  E-grid non-monotonic  2.000000000E+01 2.000000000E+01

```